



Secretariat of ISO/TC 20/SC 13

our date
2001-10-29
your date

our reference
ISO/TC 20/SC 13/N255
your reference

TO: ISO/TC20/SC13 Mailing List

FROM: ISO/TC20/SC13 Secretariat

SUBJECT: Draft Minutes of ISO/TC20/SC13 Meeting of 6 June 2001

Attached is a copy of the draft minutes of the 06 June 2001 meeting of ISO/TC20/SC13 (SC13) held in Oxfordshire, United Kingdom.

Best regards,

A handwritten signature in cursive script, reading 'John D. Kelley'.

John D. Kelley
ISO/TC 20/SC 13 General Secretary

Attachment

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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Subject: Minutes of the Twentyfirst International Organization for Standardization
(ISO)/Technical Committee (TC) 20/ Subcommittee (SC) 13 Meeting

Place: BNSC/Oxfordshire, United Kingdom

Date: June 6-7, 2001

ATTENDANCE

Name	Country/Organization
Eduardo Bergamini	Brazil/INPE
Roland Ivarnez	France/CNES
François Forestier	France/CNES
Manfred Drexler	Germany/DLR
Peter Allan	UK/BNSC
David Giarretta	UK/BNSC
Adrian Hooke	USA/NASA
John Kelley	USA/NASA
Linda Kezer	USA/NASA
Thomas Gannett	USA/NASA
John Garrett	USA/NASA

1. OPENING OF MEETING

Mr. François Forestier convened the meeting at 0900 hours on June 6, 2001. Dr. Peter Allen welcomed everyone on behalf of the Space and Science Technology Department at BNSC/RAL.

2. ROLL CALL

Mr. Forestier conducted a roll call; representatives from Canada, Italy, and Russia were not in attendance. Mr. Forestier welcomed everyone in attendance.

3. ADOPTION OF THE AGENDA

The agenda was approved as presented. The agenda is Attachment 1. However, it was noted that if there were documents that the Consultative Committee for Space Data Systems (CCSDS) wanted to progress to ISO, the Subcommittee would reconvene after the Management Council (MC) meeting in order to address CCSDS MC resolutions concerning ISO.

4. APPOINTMENT OF DRAFTING COMMITTEE

In compliance with the ISO requirement to appoint a drafting committee, SC 13 resolved that Ms. Linda Kezer, in support of the SC 13 Secretariat, would be responsible for drafting and distributing the meeting minutes.

5. REPORT OF THE SC-13 SECRETARIAT

Mr. Kelley presented the Secretariat's report (Attachment 3). The minutes of the November 2000 meeting were approved. Mr. Kelley reviewed the Program of work. He reported that IS 11103 and 11104 were in process for reconfirmation. Votes are due to the Secretariat by June 30.

There was one action item from the previous meeting (Attachment 2). Mr. Kelley reported that he had talked with Mr. Jim French, Secretariat for ISO TC20/SC14 regarding a joint SC13/SC14 meeting. Mr. Joe Smith (JPL/Panel 2) will be the SC13 contact point regarding a joint meeting on Open Archival Information System (AOIS). This action is CLOSED.

Ms. Kezer requested everyone to review the SC13 Directory. An action was assigned to all members to provide any updates, especially for the ISO body within their respective country, including email addresses. Electronic copies of reports were to be given to Mr. Tom Gannett.

6. REPORT OF DELEGATES REGARDING ACTIVITY RELATING TO SC 13

BRAZIL. Dr. Eduardo Bergamini presented the Brazil report. He reported major applications of standards space data and information systems foreseen in Brazil. Brazil is starting a new initiative to come up with current list of standards being adopted in these areas. They have four documents nearing completion of translation into Portuguese. A copy of the report from Brazil is Attachment 4.

CANADA. There was no representative from Canada and no report.

CHINA. There was no representative from China and no report.

FRANCE. Mr. Ivarnez reported that France is represented by AFNOR (French Normalisation Organisation) for the ISO votes. Concerning CCSDS, AFNOR builds its position from BNAE (French Office for Space and Aerospace Standardisation) advises. As a member, CNES uses the BNAE channel to inform the French industry community and to promote CCSDS recommendations. There are a number of spacecraft utilizing SC13 standards. France has approved the following:

ISO 11103, Radiometric & Orbit Data - reconfirmed;
 ISO 11104, Time Code Formats - reconfirmed;
 DIS 14961, PVL Specifications – CNES instructed BNAE for approbation.

A copy of the report from France is Attachment 5.

GERMANY. Mr. Drexler reported that there had not been any significant activity related to SC13 during the past six months.

ITALY. There was no representative from Italy and no report.

UNITED KINGDOM. Dr. Allen reported that the work of the British Standards Institute (BSI) ACE/67 (Aerospace Committee for Engineering 67) Committee for Information Transfer Standards, which is chaired by Dr. Allen, continues its work in reviewing the drafts, DIS and FDIS documents from SC13. ACE/68 is a similar committee and tracks the activities of SC14.

SC13 standards have been implemented on ACE an STRV spacecraft. Ground facilities utilizing SC13 standards are the RAL ground station, DERA ground station and Surrey Satellites Ltd. Surrey has several satellites and in past has not used CCSDS. But, they see a need and are interested in expanding their use of the SC13 standards.

A copy of the report from United Kingdom is Attachment 6.

UNITED STATES. Mr. Kelley reported that the US is in process of reconfirming 11103 and 11104. A new request for additional US industry reviewers of ISO documents has been issued via the CCSDS.com website.

A copy of the report from the United States is Attachment 7.

7. REPORT OF DELEGATES REGARDING SC13 LIAISON ACTIVITIES

There were no liaison reports. However, Ms. Kezer presented a list of the current liaison for reconfirmation. CNES reported that Mr. Jabs should be deleted as a contact and several other contacts were obsolete. An action was assigned to review SC13 liaisons list as to who requested the liaison and if there is still an interest in maintaining a liaison relationship. Agencies should review and confirm appropriate contacts within SC13.

8. CONSIDERATION OF NEW PROJECTS/ENDORSEMENT OF EXISTING STANDARDS FROM NON-ISO BODIES

There were no items presented.

9. ANY OTHER BUSINESS

Stagnating items: Ms. Kezer provided a report of “Stagnating Items” received from ISO Central. She reported that the CCSDS Management Council decided to delete the document CCSDS 704.0-B-1, Advanced Orbiting Systems, Networks and Data Links: Audio, Video and Still-Image Communications Services, as being obsolete. This document forms the basis for DIS 15890. Therefore, a resolution SC13 was passed to withdraw this document from ISO. An action was assigned to the Secretariat to check the status of other stagnating items.

(NOTE: The Subcommittee adjourned and reconvened on the afternoon of June 7, 2001, to consider documents submitted to SC 13 by the CCSDS Management Council.)

There were no changes proposed for the Strategic Plan.

The CCSDS Management Council submitted a number of documents for consideration by SC13. These items were approved and are included in the Resolution included in these minutes.

10. REQUIREMENTS CONCERNING A SUBSEQUENT MEETING

The next SC13 meeting was set for fall 2001 in the US to be contiguous with the CCSDS Management Council meeting.

11. APPROVAL OF RESOLUTIONS

Ms. Kezer itemized the Resolutions taken during the meeting together with the Action Items. These were approved.

12. ADJOURN

Mr. Forestier adjourned the meeting.

ISO/TC20/SC 13
DRAFT RESOLUTIONS
June 6-7, 2001

- SC-S01-R01** In compliance with the ISO requirement to appoint a drafting committee, SC 13 resolves that Ms. Linda Kezer, SC13 Secretariat, will be responsible for drafting and distributing the June 6-7, 2001, meeting minutes.
- SC-S01-R02** SC13 resolves to withdraw and cancel Draft International Standard 15890, AOS Audio/Video and Still-Image Communications Services based on the decision by the Consultative Committee for Space Data System (CCSDS) to withdraw CCSDS 704.0-B-1.
- SC-S01-R03** SC13 resolves to approve the revisions to the following ISO documents and progress to ISO:
- a. FDIS 17433, Packet Telemetry Services, (CCSDS 103.0)
 - b. ISO 12172, Telecommand Part 2, Data Routing (CCSDS 202.0)
 - c. ISO 12174, Telecommand Part 3.: Data Management (CCSDS 203.0)
 - d. ISO 13420, AOS, Networks and Data Links: Architectural Specification (CCSDS 701.0)
 - e. ISO 12173, Telecommand Part 2.1--Command Operations Procedure, COP-1 (CCSDS 202.1)
- SC-S01-R04** SC13 resolves to approve and progress to ISO the upgrade to ISO 11754, Telemetry Channel Coding (CCSDS 101.0).
- SC-S01-R05** SC13 resolves to register the CCSDS document Data Entity Dictionary Specification Language (DEDSL) Abstract Syntax (CCSDS 647.1) as a Draft International Standard document.
- SC-S01-R06** SC13 resolves to register the CCSDS document Data Entity Dictionary Specification Language (DEDSL) PVL Syntax (CCSDS 647.2) as a Draft International Standard document.
- SC-S01-R07** SC13 resolves to register the CCSDS document Data Entity Dictionary Specification Language (DEDSL) XML Syntax (CCSDS 647.3) as a Draft International Standard document.
- SC-S01-R08** SC13 thanks the British National Space Centre (BNSC)/Rutherford Appleton Laboratory (RAL) for the gracious hospitality shown during the meeting.

ISO/TC20/SC 13
ACTION ITEMS
June 6-7, 2001

The following actions were developed during the Spring 2001 SC13 meeting.

- | | |
|-----------------|---|
| SC-S01-1 | Review SC13 Directory and provide any updates, especially for the ISO body within the respective country, including email addresses. |
| Assignee: | All Members |
| Due Date: | November 2001 |
| | |
| SC-S01-2 | Review SC 13 liaisons list as to who requested the liaison and if there is still an interest in maintaining a liaison relationship. Agencies should review and confirm appropriate contacts within SC 13. |
| Assignee: | All Members |
| Due Date: | November 2001 |
| | |
| SC-S01-3 | Review “Stagnating Items” list received from ISO Central for CCSDS documents that have become obsolete and withdraw any identified items from ISO. |
| Assignee: | Secretariat |
| Due Date: | November 2001 |

ATTACHMENT 1
DRAFT AGENDA

21th Meeting of ISO/TC 20/SC 13
BNSC/RAL Oxfordshire, England
06 June 2001 (a.m.)

DRAFT AGENDA

1. Opening of the meeting (0900 hours)
2. Roll call of delegates
3. Adoption of the agenda (ISO/TC 20/SC 13/N225.1)
4. Appointment of drafting committee
5. Report of the secretariat
 - Approval of Draft Minutes of the November 2000 Meeting
 - Review Program of Work
 - Status of Open Action Item
 - Discussion of Joint SC13/14 Activity
6. Report of delegates regarding activities relating to SC 13
7. Report of delegates regarding SC13 liaison activities
 - Confirmation of liaison and representatives
8. Consideration of new projects/endorsement of existing standards from non-ISO bodies
9. Any other business
 - Revisions to SC-13 Strategic Plan (If any)
10. Requirements concerning a subsequent meeting
11. Approval of resolutions and action items
12. Adjourn – 1200*

*NOTE: If there are any documents that the CCSDS Management Council decides to submit to ISO/TC20/SC13 at their 06-07 June 2001 meeting, a special session of SC13 will be held after the Management Council meeting on 07 June 2001 to consider those recommendations.

ATTACHMENT 2
ACTION ITEMS FROM PREVIOUS MEETING

ACTION ITEMS
ISO/TC 20/SC 13 MEETING
Boulder, Colorado, USA
November 30, 2000

The following action was developed during the Fall 2000 SC13 meeting:

SC-S00-A1 Contact the SC-14 Secretariat for the purpose of determining areas of joint interest (both technical and administrative) in order that a draft agenda for a joint meeting could be developed.

Assignee: Secretariat

Due Date: April 30, 2001

Status: CLOSED. Mr. Joe Smith (JPL/Panel 2) will be the SC13 contact point regarding a joint meeting on Open Archival Information System (AOIS).

ATTACHMENT 3
SECRETARIAT'S REPORT

Enclosure A

ISO TC 20/SC 13/N231

ISO TC20 SC13 Secretariat Report

**London, England
2001-06-07**

Enclosed are the following documents:

<u>Document</u>	<u>ISO/TC20/SC 13 N#</u>
Draft Agenda (Encl A-1)	N225.1
Status of ISO/TC20/SC13 Work Program (Encl A-2)	N132
Status of SC 13 Open Action Item (To be Reported on at Meeting)	N/A
Log of Recent “N” Numbered Documents (Encl A-4)	N 18
Log of Documents Received from ISO Central Secretariat (Encl A-5)	N/A

STATUS OF ISO/TC20/SC13 WORK PROGRAM AS OF 01 APRIL 2001

COMPLETED WORK AND WORK IN PROGRESS**(Items in Parentheses Denote Work in Progress or Needed)**

ISO NUMBER	TITLE	BASED ON CCSDS DOC		CURRENT ISO STATUS
		Doc.#	Date	
ISO 11103	Radiometric & Orbit Data: 1991	501.0-B-1	87-01	Published 1991 Reconfirmed 2000
	(Being Upgraded within CCSDS and will become several different documents)	(to be assigned)		(Need to notify ISO)
ISO 11104	Time Code Formats: 1991	301.0-B-2	90-04	Published 1991 Reconfirmed 2000
	(Proposal within CCSDS to add a Time code)	(---)		(Not yet applicable)
ISO 11754	Telemetry Channel Coding	101.0-B-3	92-05	1999
	(Pink Sheeted to correct diagrams, add code options and Frame length 07-00)	(101.0-P-4.1)	(00-06)	(DIS Balloting to be Completed 01-08-31)
ISO 12171	Telecommand Part 1—Channel Services	201.0-B-2	95-11	Published 1998
	(Upgraded to include TCP/IP, other Packets)	(201.0-B-3)	(00-06)	(DIS Balloting to be Completed 01-07)
ISO 12172	Telecommand Part 2--Data Routing Services	202.0-B-2	92-11	Published 1998
	(Upgraded to carry SCPS-NP&IP Packets in CCSDS frames)	(202.0-P-2.1)	(00-11)	(RB Review to be completed 01-04))
ISO 12173	Telecommand Part 2.1—Command Op. Proc.	202.1-B-1	91-10	Published 1998
	(Upgrade to remove gaps in State Matrices)	(202.1-P-1.1)		(Review to be completed 01-04)
ISO 12174	Telecommand Part 3—Data Mgmt. Procedures	203.0-B-1	87-01	Published 1998
	(Upgraded to carry SCPS-NP&IP packets in CCSDS Frames)	(203.0-P=1.1)	(00-11)	(Pink Sheet Review to be completed 01-04))
ISO 12175	SFDU-Structure & Construction Rules: 1994	620.0-B-2	92-05	Published 1994 Reconfirmed 1999
ISO 13419	Packet Telemetry	102.0-B-4	95-01	Published 1997
	(Upgraded to include Internet Packets)	(102.0-B-5)	(00-10)	(N229 to ISO 01-03-xx))
ISO 13420	AOS, N&DL: Architectural Specification:1997	701.0-B-2	92-11	Published 1997
	(Upgraded to include Internet Packets)	(701.0-P-2.1)		(Review to be completed 01-04))
ISO 13764	SFDU—Control Authority Procedures	630.0-B-1	93-06	Published 1996
ISO 14961	PVL Specification (CCSD 0006)	641.0-B-1	92-05	Published 1997
	(Document upgraded within CCSDS)	(641.0-B-2)	(00-06)	(DIS Balloting to be complete 01-07)
ISO 14962	ASCII Encoded English (CCSD 0002)	643.0-B-1	92-11	Published 1997
ISO 15395	SFDU-Control Authority Data Structures	632.0-B-1	94-11	Published 1998
ISO 15396	Cross Support Reference Model-SLE Services	910.4-B-1	96-05	Published 1998
ISO 15887	Lossless data compression	121.0-B-1	97-05	Published 2000
ISO 15888	SFDU – Referencing environment	622.0-B-1	97-05	Published 2000
ISO 15889	Data description language—EAST Specificat'n	644.0-B-1	97-05	Published 2000
	(Upgraded to Include EAST extensions)	(644.0-P-1.1)	(00-06)	(N228 to ISO 01-03-xx))
ISO 15891	SCPS—Network protocol (SCPS-NP)	713.0-B-1	99-05	Published 2000
	(Revised to define how SPCS-NP can carry IP v4 Authentication Header))			(Pink Sheets to be issued)
DIS 15892	SCPS – Security protocol (SCPS-SP)	713.5-B-1	99-05	Published 2000
ISO 15893	SCPS – Transport protocol (SCPS-TP)	714.0-B-1	99-05	Published 2000
ISO 15894	SCPS) – File protocol (SCPS-FP)	717.0-B-1	99-05	Published 2000

STATUS OF ISO/TC20/SC13 WORK PROGRAM AS OF 01 APRIL, 2001

COMPLETED WORK AND WORK IN PROGRESS**(Items in Parentheses Denote Work in Progress or Needed)**

ISO NUMBER	TITLE	BASED ON CCSDS DOC		CURRENT STATUS
		Doc.#	Date	
CD 14721	Space Systems – Archiving Space Data	650.0-R-1	99-06	DIS Balloting Ended 00-11
	(Modifications from RB/ISO reviews being incorporated; RB2 planned)	(650.0-R-2 Planned)	(01-05)	(Plan to circulate RB2 for short ISO review)
DIS 15890	AOS Audio/Video and Still-Image Communications Services	704.0-B-1	94-05	Initially a delay was granted by ISO in progressing to FDIS.
AWI 17355	(MC Decision to Obsolete Document 00-11) CCSDS File Delivery Protocol (CFDP) - MC Decision to progress RB-3.4 to ISO	727.0-R-4	01-02	(Need to Notify ISO) N226 sent to ISO 01-04
FDIS 17433	Packet Telemetry Services	103.0-B-1	96-05	Proceeding to Publication 00-11
Need	(Upgraded to include IP Packet Services)) DEDSL-XML/DTD	647.3-R-2	(00-11) 00-06	(Pink Sheet Review Completed 01-04) Released as Red Book 00-11
Number	(MC Decision to Progress RB to ISO 00-11)			(Awaiting Stable RB to send to ISO)

COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
 REVISION DATE: 01/06/06

LOG OF DOCUMENTS FOR ISO TC 20/SC 13

"N" Number	Date Issued	Status *	Description
N1	90-04-26	S (N1/1)	Notice of 90-09-24 meeting/Draft Agenda
N1/1	90-08-14		Revised Agenda
N2	90-09-24		USSR Proposal on Liquid Rocket Engine Testing
N3	90-09-24	S (N20)	ISO TC 20/SC 13 Charter & Scope
N4	90-09-25		Report of SC 13 Secretariat
N5	90-09-25		Resolutions of First Meeting
N6	90-10-15	S (N18)	Minutes of First Meeting
N7	90-10-15		Communications Log
N8	90-10-15		Project Log
N9	91-02-14	S (N15)	DIS 11103 Radio Metric & Orbit Data (English)
N10	91-02-14		DIS 11103 Radio Metric & Orbit Data (French)
N11	91-02-14		DIS 11104 Time Code Formats (English)
N12	91-02-14	S (N18)	DIS 11104 Time Code Formats (French)
N13	91-02-14		Cancellation Notice for 25 April 1991 SC 13 Meeting
N14	91-02-14		Communications Log
N15	91-02-14	S (N165)	Project Log
N16	91-03-05		SC 13 Status Report to TC 20 Plenary
N17	91-03-05		SC 13 Master Plan
N18	91-03-05		Log of "N" Numbered Documents
N19	91-04-26		Preliminary Notice of Meeting and Status Report
N20	91-04-26		ISO TC 20/SC 13 Charter & Scope (Approved at TC 20 Plenary)
N21	91-04-26		SC 13 Master Directory
N22	91-06-19		Notice of 91-10-03 meeting/Draft Agenda
N23	91-06-27		Meeting Arrangement Letter to Delegates
N24	91-09-13		ISO/TC 20/WG 6 Status and Future Activities (reissue of ISO/TC 20 N2671)
N25	91-09-13		Report on Ballot for DIS 11103 and DIS 11104
N26	91-10-03		Liaison to CCSDS re new topics
N27	91-10-03		Contribution on the formation of new TC for Space (Abram)
N28	91-10-03		New work proposal by France (included in ballot response to DIS 11103/11104)
N29	91-10-03		Work on ISO on Certification and Quality Assurance (Abram)
N30	91-10-03		Draft of ISO Development Program for 1992-1994 (Abram)
N31	91-10-09		Liaison Report to CCSDS
N32	91-12-01		ISO 11103 (IS on Radio Metric and Orbit Data)
N33	91-12-01		ISO 11104 (IS on Time Code Formats)
N34	91-12-31		Welcoming letter to JISC as P-Member
N35	91-12-31		Minutes of second meeting of ISO/TC 20/SC 13
N36	92-02-21	S(N38/1)	Draft agenda for 92-05-22 meeting
N37	92-04-22		Report of the secretariat at 92-05-22 meeting

"N" Number	Date Issued	Status *	Description
N38	92-04-22	S(N38/1)	Second notice/agenda for 92-05-22 meeting
N38/1	92-05-22		Approved agenda of 92-05-22 meeting
N39	92-05-22		Presentation by Mr. Abram
N40	92-05-22		Sustainable Industrial Development paper (Abram)
N41	92-05-22		Article (N40 topic) from ISO Bulletin (92-04)
N42	92-05-22		Notice on Symp. on Space Tech. for Environment
N43	92-05-22		World-wide Recognition of OSI Test Results
N44	92-05-22		Resolutions of 92-05-22 meeting of ISO/TC 20/SC 13
N45	92-07-22		Minutes of 92-05-22 meeting of ISO/TC 20/SC 13
N46	92-07-22		Report of ISO/TC 20/SC 13 to ISO/TC 20 Plenary (92-10)
N47	92-08-10		Draft Agenda for 92-11-17 meeting of ISO/TC 20/SC 13
N48	92-08-10		Hotel Arrangements for 92-11-17 Meeting
N49	92-12-15		Letter to ISO Central Secretariat re 92-11-17 Meeting
N50	92-12-11		Letter to Ziemann re ISPRS Type B Liaison
N51	92-12-17		Minutes of 4th meeting of ISO/TC 20/SC 13
N52	93-01-29		Letter to ISO Central Secretariat re DIS 12175 ballot request
N53	93-03-17		Draft Agenda for 93-06-09 meeting of ISO/TC 20/SC 13
N54	93-02-22		SC13 Secretariat Report for 93-06-09 Meeting
N55	93-04-26		Revised Notice of 93-06-09 Meeting and Agenda
N56	93-06-09		Minutes of 5th meeting of ISO/TC20/SC13 (Brazil)
N57	93-07-08		Letter to ISO Central Secretariat
N58	93-07-26		Preliminary Notice of 93-10 Meeting and Agenda
N59	93-09-20		Revised Notice of 93-10 Meeting and Agenda
N60	93-10-29		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Vienna
N61	93-11-14		Minutes of 6th Meeting of ISO/TC20/SC13 (Vienna)
N62	94-01-24		Preliminary Notice of 93-05-06 Meeting and Agenda
N63	94-02-25		SC13 Secretariat Report to TC20 Plenary at Beijing
N64	94-02-25		Revised Notice of 93-05-06 Meeting and Agenda
N65	94-03-09		Form 8A Submission for DIS 13419 (Packet Telemetry)
N66	94-03-09		Form 8A Submission for DIS 13764 (SFDU CA)
N67	94-03-09		Transmittal Letter to ISO re DIS13419/13764
N68	94-03-24		Form 8A Submission for DIS 12171 (T/C-Channel Services)
N69	94-03-24		Form 8A Submission for DIS 12172 (T/C-Data Routing Services)
N70	94-03-24		Form 8A Submission for DIS 12173 (T/C-Command Operating Procedures)
N71	94-03-24		Form 8A Submission for DIS 12174 (T/C-Data Management Services)
N72	94-03-24		Form 8A Submission for DIS 12175 (SFDU-Structure & Construction Rules)
N73	94-03-24		Transmittal Letter to ISO re DIS12171-12175
N74	94-04-08		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Villafranca
N75	94-09-27	S(N75/1)	Minutes of 7th Meeting of ISO/TC20/SC13 (Villafranca)
N75/1	94-10-14		Correction to Attachment D to Minutes of 7th Meeting
N76	94-09-28		Form 8A Submission for DIS 13764 F (SFDUs CA Procedures)
N77	94-09-29		Transmittal Letter to ISO re DIS 13764 F
N78	94-10-13		Draft Agenda for 94-11-11 Meeting

"N" Number	Date Issued	Status *	Description
N79	94-10-13		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Greenbelt
N80	94-11-02		Letter to Mr. A. V. Mitin, NIISU Director (Russia)
N81	95-02-01		Minutes of 8th Meeting of ISO/TC20/SC13 Meeting in Greenbelt
N82F	94-11-15		Form 8A Submission for DIS 12172 (F) (T/C-Data Routing Services)
N83F	94-11-15		Form 8A Submission for DIS 12174(F) (T/C-Data Management Services)
N84	94-11-15		Transmittal Letter to ISO re DIS 12172 and 12174 (F)
N85	94-11-15		New Work Item Proposal by SC 14 re Space Systems-Archiving Space Data
N86	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns Concept
N87	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns Function
N88	94-12-20		Liaison between ISO/TC 211 and ISO/TC 20/SC 13
N89F	94-11-15		Form 8A Submission for DIS 13419 (Packet Telemetry) (F)
N90	94-11-15		Transmittal Letter to ISO re DIS 13419
N91	94-12-12		Letter to ISO Central Secretariat re 94-11-11 Meeting
N92	94-12-13		Current Status of ISO/TC 20 Draft Standards
N93	95-01-06		Liaison between INTELSAT and ISO/TC 20/SC 13
N94	95-01-06		Liaison between CEOS and ISO/TC 20/SC 13
N95	95-01-12	S(N95/1)	Preliminary Notice of 1995-05-12 Meeting and Agenda
N95/1	95-03-10		Draft Agenda for 95-05-12 Meeting
N96	95-03-17		Letter to ISO/TC20/SC13 Distribution re 1995-05-12 Mtg
N97	95-05-01		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in St. Hubert
N98	95-05-12		Form 8A Submission for DIS 13420 (AOS Networks&Data Links: Architectural Specification)
N99	95-05-	C	Transmittal Letter to ISO re DIS 13420
N100	95-05-26		Letter to ISO Central Secretariat re 95-05-12 Meeting
N101	95-05-12		Minutes of 9th Meeting of ISO/TC20/SC13 in St. Hubert
N102	95-05-12		Form 8A Submission for CCSDS 641.0-B-1 (Parameter Value Language Specification) as DIS document
N103	95-05-12		Form 8A Submission for CCSDS 642.0-B-1 (ASCII Encoded English) as DIS document
N104	95-06-09		Letter to ISO/TC 20/SC 13 Distribution re Update to Directory
N105	95-06-12		Letter to Standards Council of Canada
N106	95-07-10		SC13 Secretariat Report to TC20 Plenary at Washington DC
N107	95-07-05		Letter to ISO Central Secretariat re Data Archiving WI
N108	95-07-05		Letter to ISO Central Secretariat re Mission Ops WI's (joint letter from SC13 and SC 14)
N109	95-07-03	S(N109/1)	Preliminary Notice of 1995-11-16 Meeting and Agenda
N109/1	95-11-07		Draft Agenda for 95-11-16 Meeting
N110	95-10-12		SC 13 Secretariat Report to ISO/TC20/SC13 Mtg in Toulouse
N111	95-08-07		Letter to ISO/TC20/SC13 Chair re 13419 Report of Voting
N112	95-08-08		Letter to ISO Central, Approval of coversheet document for ISO/DIS 14961 and 14962
N113	95-08-09		Letter to ISO Central Secretariat re Request for Addition to Cover Pages for ISO/DIS 12171 thru 12174
N114	95-08-21		Letter to ISO/TC20/SC13 Chair re 13764 Report of Voting
N115	95-09-11		Letter to ISO/TC20/SC13 Distribution re 1995-11-16 Mtg

"N" Number	Date Issued	Status *	Description
N116	95-10-02		Letter to ISO/TC 20/SC 13 Chair re 12172 Report of Voting
N117	95-10-02		Letter to ISO/TC 20/SC 13 Chair re 12174 Report of Voting
N118	95-10-02		Letter to ISO Central Secretariat, Approval of coversheet document for ISO/DIS 13420
N119	95-10-05		Letter to ISO Central Secretariat re Addition to cover pages for ISO 12171, 12172, and 12173 and 12174
N120	95-10-12		Information for ISO/TC 20/SC 13 10th Meeting - 16 November 1995
N121	95-11-10		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Toulouse
N122	95-11-16		Minutes of 10th Meeting of ISO/TC 20/SC 13 in Toulouse
N123	95-11-28		Letter to ISO Central Secretariat, Approval of Proof for ISO 13764
N124(F)	95-12-04		Letter to ISO Central Secretariat re ISO/DIS 13420 - corrected page to French text
N125	96-01-22		Letter to ISO Central Secretariat re 95-11-16 Meeting
N126(F)	95-12-04		Form 8A, Submission for ISO/DIS 14962 (ASCII Encoded English) (F)
N127	96-01-22		Letter to Mr. Niechoda (Poland)
N128	96-01-22		Letter to Mr. Taneja (India)
N129	96-01-22	S(N129/1)	Preliminary Notice of 1996-05-14 Meeting and Agenda
N129/1	96-05-01		Draft Agenda for 96-05-14 Meeting
N130(F)	96-01-17		Form 8A, Submission for ISO/DIS 14961 (Parameter value language Specification) (F)
N131	96-01-23		Letter to SC 13 re Review of ISO 11103 and 11104
N132	96-02-05		Status of ISO/TC 20/SC 13 Work Program
N133	96-03-05		Letter to TC 211 re Liaison activities
N134	96-02-07		Letter to ISO Central Secretariat re NWI 14721, Space systems -- Archiving space data
N135	96-03-12		Letter to ISO/TC 20/SC 13 regarding May 1996 meeting
N136	96-05-01		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Pasadena
N137	96-05-14		Minutes of 11th Meeting of ISO/TC 20/SC 13 in Pasadena
N138	96-05-22		Archiving Model to Canada for transmittal to TC211
N139	96-06-11		Letter to ISO Central re DIS 12171.2 -- Telecommand--Channel Service
N140	96-06-11		Letter to ISO Central re DIS 13419 -- Packet Telemetry
N141	96-06-11		Letter to ISO Central Secretariat re 96-05-14 Meeting
N142	96-06-11		Letter to ISO/TC 211 re Relationship between CCSDS and TC 20/SC 13
N143(E)	96-06-11		Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data Units - Control Authority Data Structures)
N143(F)	97-05-09		Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data Units - Control Authority Data Structures)
N144(E)	96-06-11		Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference Model, Part 1: SLE Services) (English text)
N144(F)	96-		Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference Model, Part 1: SLE Services) (French text)
N145	96-07-03		Preliminary Notice of 1996-11-15 Meeting and Agenda
N146	96-07-15		Letter to ISO/TC 20/SC 13 regarding Status of Proposed Work Items in the Mission Operations Area
N147	96-07-22		Letter to ISO Central re revised French & English texts for ISO/DIS 13419
N148	96-07-22		Letter to ISO Central re English text for ISO/DIS 12171:2
N148(F)	96-08-07		Letter to ISO Central re French text for ISO/DIS 12171:2
N149	96-08-07-		Letter to ISO Central re Liaisons with other ISO committees

"N" Number	Date Issued	Status *	Description
N150	96-09-06		Periodical Review of International Standards (11103 and 11104)
N151	96-09-16		Letter to ISO Central re CCSDS Work Items
N152	96-10-03		Letter to Mr. Wittner (Argentina)
N153	96-11-15		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Germany
N154	96-11-15		Minutes of 12th Meeting of ISO/TC 20/SC 13 in Germany
N155	97-01-21		Preliminary Notice of 1997-05-28 Meeting and Agenda
N155/1	97-05-15		Draft Agenda for 1997-05-28 Meeting
N156	97-01-28		SC13 Secretariat Report to TC20 - 1997
N157	97-05-15		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Brazil
N158	97-05-28		Minutes of 13th Meeting of ISO/TC 20/SC 13 Meeting in Brazil
N159	97-07-14		Preliminary Notice of 1997-11-14 Meeting and Agenda
N160	97-10-10		Form 8A Submission for CCSDS 121.0-B-1: Lossless Data Compression
N161	97-10-10		Form 8A Submission for CCSDS 622.0-B-1: Standard Formatted Data Units -- Referencing Environment
N162	97-10-10		Form 8A Submission for CCSDS 644.0-B-1: The Data Description Language EAST Specification
N163	97-10-10		Form 8A Submission for CCSDS 704.0-B-1, Advanced Orbiting Systems, Networks and Data Links: Audio, Video and Still-image Comm Services
N164	97-11-14		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in England
N165	97-11-14		Draft ISO/TC 20/SC 13 Master Plan
N166	97-11-14		Minutes of the 14th Meeting of ISO/TC 20/SC 13 Meeting in England
N167	97-12-02		Form 8A Submission of CCSDS 713.0-R, Space Communications Protocol Specification (SCPS)--Network Protocol (SCPS-NP)
N168	97-12-02		Form 8A Submission of CCSDS 713.5-R, Space Communications Protocol Specification (SCPS)--Security Protocol (SCPS-SP)
N169	97-12-02		Form 8A Submission of CCSDS 714.0-R, Space Communications Protocol Specification (SCPS)--Transport Protocol (SCPS-TP)
N170	97-12-02		Form 8A Submission of CCSDS 717.0-R, Space Communications Protocol Specification (SCPS)--Security Protocol (SCPS-SP)
N171	98-01-28		Preliminary Notice of 1998-06-09 Meeting and Agenda
N171.1	98-05-08		Draft Agenda for 1998-06-09 Meeting
N172	98-06-09		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Japan
N173	98-09-25		Minutes of 15th Meeting of ISO/TC 20/SC 13 in Japan
N174	98-07-01		Letter forwarding PKT TLM Services BB for progressing to ISO IS
N175	98-07-24		Preliminary Notice of 1998-11-06 Meeting in Japan
N175.1	98-10-02		Draft Agenda for 1998-11-06 Meeting in Darmstat
N176	98-08-28		Letter accepting Dr. Markarian as CCSDS Associate Member
N177	-----		Not Used
N178	98-09-22		Form 8A Submission for CCSDS 103.0-B-1: Packet Telemetry Services Blue Book Dated May 1996
N179	98-12-02		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Germany
N180	98-12-02		Letter to Abram requesting delay in processing four SCPS DISs to FDISs
N181	98-12-04		Request to Secretary-General for information re Registering Control Authority with ISO
N182	98-12-07		Letter forwarding ISO form 13 to Abram re EAST DIS
N183	98-12-07		Letter forwarding ISO form 13 to Abram re Referencing Environment DIS
N184	98-12-29		Letter to Abram requesting delay in processing Audio/Video DISs

"N" Number	Date Issued	Status *	Description
N185	99-03-03		Covering Letter for Draft Agenda for 1999-05-19 Meeting
N186	99-02-03		Draft Agenda for 1999-05-19 Meeting in California
N187	99-02-03		Letter to Abram re Cover Sheet for Packet Services, DIS 17433
N188	99-02-04		Letter forwarding ISO form 13 to Abram re Lossless Compression DIS
N189	99-05-03		Minutes of 16 th Meeting of ISO/TC20/SC13 in Darmstadt
N190	99-04-19		Covering Letter for Interim Agenda for 99-05-19 meeting
N191	99-04-19		Secretariat's package for 99-05-19 Meeting in California
N192	99-05-28		Letter to Abram approving proposed Cover Sheet for Packet Services
N193	99-05-08		Letter to Abram approving proposed Cover Sheet for Ref Environment
N194	99-07-01		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Newport Beach, CA
N195	99-07-01		Minutes of 17 th Meeting of ISO/TC20/SC13 in Newport Beach, California
N196	99-08-05		Letter to Abram reconfirming three ISO standards for five more years
N197.1	99-08-06		Form 13 to Abram requesting FDIS status for Four SCPS DISs
N197.2	00-03-03		Letter to Abram requesting FDIS status for Four SCPS DISs
N198	99-08-06		Letter/Form 8A to Abram requesting DIS status for OAIS Ref Model
N199	99-09-16		Covering Letter announcing for 99-12 meeting in Frascati, Italy
N200	99-09-16		Draft Agenda for 99-12 meeting in Frascati, Italy
N201	99-10-04		Letter to Abram updating ISO Lists as requested
N202	99-11-23		MC Secretariat's Report package for 99-12-13 Meeting in ESRIN Italy
N203	99-11-23		SC 13 Secretariat Report package for 99-12-14 to ISO/TC 20/SC 13 Meeting in Italy
N204	00-01-19		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Frascati, Italy
N205	00-03-27		Transmittal Letter to Members Announcing S2000 Meeting in Toulouse
N206	00-03-27		Draft Agenda for S2000 meeting in Toulouse, France
N207	00-04-24		Minutes of 18 th Meeting of ISO/TC20/SC13 at ESRIN in Frascati, Italy
N208	00-05-14		Invitation to Ukraine to attend June 2000 SC13 meeting
N209	00-05-14		Invitation to Sweden to attend June 2000 SC13 meeting
N210	00-05-22		Letter to Abram approving OAIS Cover Sheet
N211	00-05-22		Letter to Ivarnez forwarding OAIS Cover Sheet approval
N212	00-05-30		Form 13 requesting FDIS vote for Packet TLM Services
N213	00-05-30		Letter forwarding Form 13 re Packet TLM Services
N214	00-07-23		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Toulouse, France
N215	00-08-24		Letter requesting DIS processing of Revised TC Blue Book
N215.1	00-08-24		Form 8A requesting DIS processing of Revised TC Blue Book
N216	00-08-24		Letter requesting DIS processing of Upgraded PVL Blue Book
N216.1	00-08-24		Form 8A requesting DIS processing of Upgraded PVL Blue Book
N217	00-09-21		E-Mailed Draft Agenda for SC13 Fall 2000 meeting in Boulder
N217.1	00-10-25		Revised Draft Agenda for SC13 Fall 2000 meeting in Boulder
N218	00-10-03		Minutes of 19 th Meeting of ISO/TC20/ SC13 at Toulouse
N219	00-10-13		Letter to Abram approving Cover Sheet for Updated PVL
N220	00-10-13		Letter to Abram approving Cover Sheet for Updated Telecommand
N221	00-10-25		Covering Letter announcing for 00-11-30 meeting in Colorado, US
N222	00-10-25		Secretary Package for 30/11/00 meeting
N223	01-02-05		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Boulder, Colorado

"N" Number	Date Issued	Status *	Description
N224	01-04-24		Minutes of 20 th Meeting of ISO/TC20/SC13 at Boulder, Colorado, USA
N225	01-03-05		Transmittal Letter to Members Announcing S2001 Meeting in UK
N225.1	01-03-05		Draft Agenda for ISO/TC20/SC13 Meeting at BNSC/RAL in UK
N226	01-03-02		Letter requesting DIS processing of CCSDS File Delivery Protocol (CFDP)
N226.1	01-03-02		Form 8A requesting DIS processing of CCSDS File Delivery Protocol (CFDP)
N227	01-03-02		Systematic Review of International Standards (IS 11103 and IS 11104)
N228	01-03		Letter Requesting DIS processing of updated CCSDS DDL EAST Spec.
N228.1	01-03-		Form 8A for DIS processing of updated CCSDS DDL EAST Specification
N229	01-03		Letter Requesting DIS processing of updated CCSDS Packet Telemetry
N229.1	01-03		Form 8A for DIS processing of updated CCSDS Packet Telemetry
N230	01-05-02		Letter forwarding Secretariat's Package for Spring 2001 Meeting in UK
N231	01-05-02		Secretariat's Package for Spring 2001 Meeting at BNSC in UK

* C = Cancelled; S = See superseded version; if no entry, then document not cancelled or superseded.

Documents Received from ISO Central Secretariat
December, 2000 – June 2001

From	Date	Subject
Matthew Williams	2000-11-28	Copyright Notice for ISO Vocabulary and Terminology Standards
M. A. Smith	2001-01-11	Notification that IEC has discontinued distribution of documents in paper form (copy attached)
M. A. Smith	2001-02-22	List of ISO/IEC, JTC/SC and ISO/TC/SC Chairmen and Secretaries
Keith Brannon	2001-02-22	Establishment of Category C Liaison Between ISO/IEC/ JTC 1/SC29/WG 1 and CCSDS
Lawrence Eicher	2001-03-16	2001 Edition of ISO Catalogue
Lawrence Eicher	2001-03-16	2001 Edition of ISO Memento

ATTACHMENT 4
REPORT FROM BRAZIL



ABNT - BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS
 CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE
 SC 08:001 - SUBCOMMITTEE OF SPACE ACTIVITY
 CE 08:001.06 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

Brazil/ABNT REPORT

SC-13/TC-20/ISO MEETING

06 JUNE 2001

**Rutherford Appleton Laboratory, Chilton,
 Didcot, Oxfordshire, United Kingdom**

SC13/TC20/ISO Meeting at RAL, Chilton, Didcot, Oxfordshire, UK., 06 June 2001

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20.05.01, prepared by E.W. Harpman/CE08:001.06/ABNT.doc



ABNT - BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS
 CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE
 SC 08:001 - SUBCOMMITTEE OF SPACE ACTIVITY
 CE 08:001.06 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

MAJOR APPLICATIONS OF STANDARDS ON SPACE DATA AND INFORMATION SYSTEMS AS BEING FORESEEN IN BRAZIL

- ***LAUNCHING BASE FACILITIES (at CLA, in Alcântara, MA, BR)***
- ***INTERNATIONAL SPACE STATION (ISS)***
- ***TRACKING & CONTROL CENTER & STATIONS***
- ***MISSION DATA CENTERS***

SC13/TC20/ISO Meeting at RAL, Chilton, Didcot, Oxfordshire, U.K., 06 June 2001

p. 2/6

20.05.01, prepared by E.W. Harpman/CE08:001.06/ABNT.doc



ABNT - BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS
CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE
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CE 08.001.05 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

CCSDS ORIGINATED DOCUMENTS WITH TRANSLATION NEAR COMPLETION

1. CCSDS 121.0-B-1 (Blue Book): 'Lossless Data Compression';
2. CCSDS 120.0-G-1 (Green Book): 'Lossless Data Compression';
3. CCSDS 320.0-B-2 (Blue Book): 'CCSDS Global Spacecraft Identification Field: Code Assignment Control Procedures';
4. CCSDS A30.0-G-3 (Green Book): 'Consultative Committee for Space Data Systems: Glossary';
5. Collection of SUMMARIES (so far) of some 20 of the CCSDS Blue Books/ISO Standards.

MAIN STEPS FOR GENERATING BRAZILIAN STANDARDS FROM CCSDS AND ISO (CCSDS ORIGINATED) DOCUMENTS¹

- **FIRST STEP:** Generation of a version in Portuguese of the document, in strict CCSDS format, including the ISO cover sheet, if any;
- **SECOND STEP:** Mapping of the standard (CCSDS BB or ISO) document to the ABNT format for submission as a Brazilian Standard ('NORMA ABNT'), where the original Annex(es), if any, is (are) re-named under the title of 'STANDARD ANNEX(es)' ('ANEXOS NORMATIVOS') and where the original (CCSDS) pertinent Green Book(s) is (are) aggregated as 'INFORMATIVE ANNEX(es)' ('ANEXOS INFORMATIVOS').

SC13/TC20/ISO Meeting at RAL, Chilton, Didcot, Oxfordshire, UK., 06 June, 2001

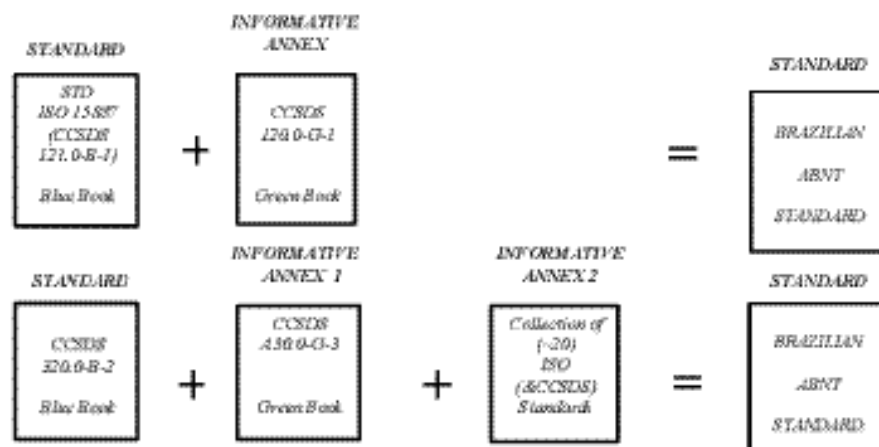
p. 3/6

2005.01, prepared by E.H. Burges in CCB 08.001.05/ABNT.doc



ABNT - BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS
CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE
SC 08.001 - SUBCOMMITTEE OF SPACE ACTIVITY
CE 08.001.05 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

BASIC PROCEDURE FOR ADAPTING CURRENT DOCUMENTS UNDER TRANSLATION TO BRAZILIAN ABNT STANDARDS

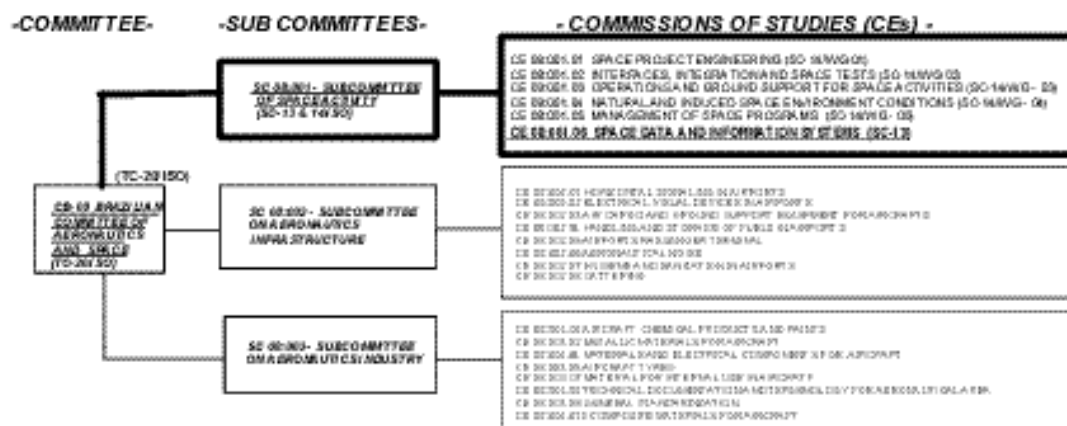


SC13/TC20/ISO Meeting at RAL, Chilton, Didcot, Oxfordshire, UK., 06 June, 2001

p. 4/6

2005.01, prepared by E.H. Burges in CCB 08.001.05/ABNT.doc


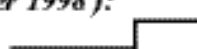
ABNT EQUIVALENCE OF THE CB-08: BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE WITH ISO TC-20



2015.01, prepared by E.H. Berg with CPOB/04, 05 APR 15, doc



**SITE OF "THE BRAZILIAN INFORMATION NETWORK FOR THE
STANDARDIZATION OF SPACE ACTIVITIES - RBNAE"**

- **MAIN SITE (Since August 2000):**
<http://www.rbnae.atsme.inpe.br> ————  **Internet**
Extranet (Login)
- **CE 08:001.06/ABNT BRAZILIAN SITE EQUIVALENT TO SC-13/TC-20/ISO**
<http://www.rbnae.atsme.inpe.br> (pointed from)
- **SIMPLIFIED SITE (Since December 1998):**
<http://www.atsme.inpe.br/rbn> ————  **Internet**
Extranet
- **SITE OF THE 'BRAZILIAN ASSOCIATION FOR TECHNICAL STANDARDS - ABNT':** *<http://www.abnt.org.br>*

29.05.01. www.zoo.rwth-aachen.de/medien/01/06/01NT.doc

ATTACHMENT 5
REPORT FROM FRANCE

CNES REPORT ISO/TC20/SC13 MEETING OXFORD - JUNE 2001

1- MANAGEMENT :

1-1- ORGANIZATION :

- In the CCSDS domain,
 - CNES is working with SC13 secretariat and with ISO central secretariat in order to move CCSDS books to ISO standards, according to ISO procedures.
 - France is represented by AFNOR (French Normalisation Organisation) for the ISO votes. Concerning CCSDS, AFNOR build up its position from BNAE (French Office for Space and Aerospace Standardisation) advises. CNES is a member of BNAE together with industry. CNES also uses the BNAE channel to inform the french industry community and to promote CCSDS recommendations.
 - At CNES, Roland IVARNEZ is Chairman of SC13, until november 2002. He is supported by Francois FORESTIER and Jacques LAPEYRE.

1-2- AREA OF AGENCY INVOLVEMENT :

Global, due to chairmanship

1-2- MANPOWER ALLOTTED :

Equivalent to about 1/2 man x year; which is same as last year

2- IMPLEMENTATION ACTIVITIES :

2-1- SPACECRAFT UTILIZING SC13 STANDARDS :

Corot; Demeter; Franco-Bresilien; Jason1; Mars Premier; Megha Tropiques; Microscope; Parasol; Picasso; Pleiades; SMOS; Stentor, will be future spacecraft, compliant for CMD and TLM standards

2-2- GROUND FACILITIES UTILIZING SC13 STANDARDS :

EAST for data description, connected to OASIS tool: Helios; SALTO (Doris on Jason & Envisat); SPOT numerical archiv;ATV-CC

3- DOCUMENTATION ACTIVITIES :

3-1- ADOPTION OF SC13 STANDARDS:

- National approval :**
 - ISO.11103 Radiometric & Orbit data : reconfirmed**
 - ISO.11104 Time code formats : reconfirmed**
 - DIS. 14961 PVL specifications : Cnes instructed BNAE for approbation**

3-2- TRANSLATION :

All documents have been translated into french, except :

- **12171- Telecommand -Channel services: To be achieved in july**
- **13419- Packet Telemetry: Pink sheets translation to be started**
- **14961- PVL specifications: To be achieved in september**
- **15889- East specification: Pink sheets translation to be started**
- **15891 to 15894- SCPS: None is foreseen, as it concern a few specialists**
- **17355-CFDP: None is foreseen, as it concern a few specialists**

4- TECHNICAL ACTIVITIES :

4-1- STATUS OF ACTION ITEMS :

None

4-2- STATUS OF ON-GOING ASSIGNEMENTS :

None

4-3- STATUS OF LIAISON ACTIVITIES :

None

5- CONCLUSION :

CNES maintains its interest for CCSDS and ISO activities

(REF= CNES REPORT SC13)

ATTACHMENT 6
REPORT FROM UNITED KINGDOM

United Kingdom Report to ISO TC20/SC13, June 2001

P Allan, 6 June 2001

Management***Organization / Changes***

The work of the British Standards Institute (BSi) ACE/67 (Aerospace Committee for Engineering 67) Committee for Information Transfer Standards has continued its work in reviewing the drafts, DIS and FDIS documents from SC13. A similar committee (ACE/68) tracks the work of SC14 and P. Allan, the chairman of ACE/67, attends some of the ACE/68 meetings. An Electronic Document system (<http://edd.bsi.org.uk/>) has been adopted for many committees, including ACE/67 and ACE/68, and is now the sole means of distributing documents.

The secretariat of BSi are proposing that we should restructure the ACE/67 and ACE/68 committees to reflect the complex interrelationships that occur between external bodies. The proposal is for ACE/67 to become a working group of ACE/68. This reflects the fact that ACE/68 covers a much wider range of aerospace standards than does ACE/67, which concentrates purely on standards derived from CCSDS. Although ACE/68 deals primarily with hardware, it also deals with general software issues and interfaces to bodies such as ECSS. At present, it seems likely that the change will be implemented later this year.

Areas of Agency Involvement

Funding for these activities in the current financial year is provided jointly by BNSC and the Particle Physics and Astronomy Research Council (PPARC). In previous years, the Natural Environment Research Council (NERC) also contributed.

Manpower Allotted

The manpower allotted to this area is mixed in with the funding provided to support CCSDS activities. The total funding amounts to approximately half a staff-year, although only a small part of this goes directly to SC13 and ACE/67 activities.

Implementation Activities***Spacecraft Utilizing SC13 Standards***

ACE – the RAL ground station is a major part of the ground system for this NOAA satellite.

STRV-1c/d were set up to use the standards. Unfortunately the satellites are both non-operational, so this will not be possible. In place of the planned activities, there are discussions about implementing the tests on the Surrey Satellites UoSAT-12 platform.

Most spacecraft that have a UK involvement are part of international consortia. Hence it is difficult to highlight ones that might be considered UK spacecraft.

Ground Facilities Utilizing SC13 Standards

RAL ground station
DERA ground station
Surrey Satellites Ltd

The above do use all of the available standards, although the usage is increasing with time.

Documentation Activities

All of the draft standards from SC13, and reviewed by ACE/67, have been approved and passed on for issue as BSi Standards.

The standards now issued as BSi standards are as follows:

BS Z 1	Radio Metric and Orbit data
BS Z 2	Time Code Formats
BS Z 3	Telemetry Channel Coding
BS Z 4	SFDUs Structure and construction rules
BS Z 5	SFDUs Control authority procedures
BS Z 6	PVL specification
BS Z 7	ASCII encoded English
BS Z 8	Packet Telemetry
BS Z 9	AOS Network and data links
BS Z 10	SFDUs Control authority data structures
BS Z 11	Cross Support Reference Model – SLE
BS Z 12	Telecommand – Channel Service
BS Z 13	Telecommand – Data Management Service
BS Z 14	Telecommand – Command Operations procedures
BS Z 15	Telecommand – Data Routing Service
BS Z 17	Data systems – Lossless data compression
BS Z 18	Standard formatted data units – Referencing environment
BS Z 19	Data description language – EAST specification

Technical Activities

Status of Action Items

There are no action items that currently apply.

Status of On-Going Assignments

The on-going assignment is to receive documents from the British Standards Institute and to ensure that it is reviewed for BSi and to then approve it (or not) for issuance as a British Standard. Although the mechanism may change as indicated in the first section, this should be transparent when seen from outside.

Status of Liaison Activities

The chair of ACE/67 (Peter Allan) attends meetings of ACE/68, which processes standards relating to space systems and operations. In addition, ACE/68 shadows the work of the European Co-operation for Space Standardization (ECSS) committees.

ATTACHMENT 7
REPORT FROM UNITED STATES



06 June 2001

ISO/TC 20/USSCAG13

**U.S. report to the
21st. meeting of
ISO/TC20/SC13, Space Data and Information Transfer Systems
RAL, Oxford, United Kingdom
06 June 2001**

The period between November 2000 and June 2001 has been unusually quiet. Other than a request for the Systematic Review of IS 11103 (Radiometric and Orbit data) and 11104 (Time Code Formats)" there has been no activity. The vote to reconfirm these two documents is due June 30.

A new request for additional U.S. industry reviewers of ISO documents has been issued via the CCSDS.com website.

Respectfully submitted,

Mr. Adrian J. Hooke, Chairman, USSCAG13
NASA Jet Propulsion Laboratory,
InterPlanetary Network and Information Systems Directorate
M/S 303-400, 4800 Oak Grove Drive
Pasadena, California 91109-8099, USA